

19980918.ba v02_n220.bam.980918

>From ???@??? Sat Sep 19 01:14:40 1998
Message-Id: <199809190327.WAA01063@sco.theporch.com>
Date: Fri, 18 Sep 1998 22:23:50 CDT
Subject: BOATANCHORS digest 2220

BOATANCHORS Digest 2220

Topics covered in this issue include:

- 1) R388 panel and KC dial
by Matt Jodziewicz <mattj@oraus.com>
- 2) GEC BRT402S What is that?
by "Sven Grandell" <sierra.victor@swipnet.se>
- 3) Re: Fresh out of Utica(s)
by "John K9UWA" <k9uwa@cris.com>
- 4) RE: GEC BRT402S What is that?
by Ed Sieb <esieb@gmsiworld.com>
- 5) Re: GEC BRT402S What is that?
by thompson@mindspring.com
- 6) Ameco Company History
by "Freeberg, Scott (STP)" <scott.freeberg@guidant.com>
- 7) TV-3 Tube Checker
by N5CM@aol.com
- 8) BA/GB net...
by Sandy W5TVW <ebjr@worldnet.att.net>
- 9) Cheap IF shift
by zeitler@ibm.net
- 10) Re: tektronix scope ID
by Henry van Cleef <vancleef@netcom.com>
- 11) Trying to find someone--sri, no BA content
by "Roberta J. Barmore" <rbarmore@indy.net>
- 12) Phototube vs Photocell
by David Stinson <arc5@ix.netcom.com>
- 13) SX-42 illis-A summary
by "A. B. Bonds" <ab@vuse.vanderbilt.edu>
- 14) Re: Phototube vs Photocell
by "Arden Allen" <gumbear@pacbell.net>
- 15) R.F. METER
by Mary & Ray Jefferson <w7fni@micron.net>
- 16) More Tubes FS
by David Stinson <arc5@ix.netcom.com>
- 17) Re: 3.521 interference
by Glenn Finerman <glennfin@mjet.com>
- 18) VU111 Tube, What is it?
by "James R. Binkley" <w4aos@his.com>
- 19) Hammarlund HQ-160 wanted

by "David Hutchison" <davehutchison@worldnet.att.net>
20) Re: The 3/1/99 Problem
by Sandy W5TVW <ebjr@worldnet.att.net>
21) Re: The 3/1/99 Problem
by "Roberta J. Barmore" <rbarmore@indy.net>

Message-ID: <618805C5F139D211A06F00104B8942F00224FA@ORAMAIL>
From: Matt Jodziewicz <mattj@oraus.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: R388 panel and KC dial
Date: Thu, 17 Sep 1998 11:58:22 -0700
MIME-Version: 1.0
Content-Type: multipart/alternative;
boundary="----=_NextPart_001_01BDE26D.246BE300"

This message is in MIME format. Since your mail reader does not understand this format, some or all of this message may not be legible.

-----=_NextPart_001_01BDE26D.246BE300
Content-Type: text/plain

My R388 needs a front panel and a KC dial (the white round dial) to complete its restoration. Somebody polished the panel with a brick I think and (somehow) managed to burn the kc dial black in one entire section of the dial. Otherwise the rig is about back to working condition.

Does anybody have a panel or the kc dial from a junker or (ha ha) just "lying around"? If so I can promise it a good home. Please let me know if you can help.

Thanks.

Matt WB2VZS

-----=_NextPart_001_01BDE26D.246BE300
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</HEAD>
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Content-Transfer-Encoding: quoted-printable

Hi BAs.

I got an offer to buy a GEC BRT402S receiver.

The only thing I know about it is

it=B4s heavy and have general coverage and have been used by the Swedish Navy. Have anyone more information to tell me?

Sven, SM3SV

-----=_NextPart_000_004B_01BDE27F.71EE2B80

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charset="iso-8859-1"

Content-Transfer-Encoding: quoted-printable

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<META content=3D'"MSHTML 4.71.1712.3"' name=3DGENERATOR>

</HEAD>

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<DIV>Hi BAs.</DIV>

<DIV>I got an offer to buy a =
GEC BRT402S=20
receiver.</DIV>

<DIV>The only thing I know =
about it=20
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<DIV>it´s heavy and =
have general=20
coverage and have been used by the</DIV>

<DIV>Swedish Navy. Have anyone more =
information to tell=20
me?</DIV>

<DIV>Sven, SM3SV</DIV></BODY></HTML>

-----=_NextPart_000_004B_01BDE27F.71EE2B80--

Message-Id: <199809172029.QAA19370@newman.concentric.net>

From: "John K9UWA" <k9uwa@cris.com>

To: Old Tube Radios <boatanchors@theporch.com>

Date: Thu, 17 Sep 1998 15:30:06 +0000

MIME-Version: 1.0

Content-type: text/plain; charset=US-ASCII

Content-transfer-encoding: 7BIT

Subject: Re: Fresh out of Utica(s)
CC: mnhopkins@juno.com

Hi Michael

> I was glad to see someone, here K9UWA, tuned up another Utica 650 6M AM
> transceiver. I sold mine last year to someone who had one back in the
> mid 1960s when they were new.

Right on target

Found the Owners book for it!!...says Purchased New 11/27/64

> A Utica 650 that is "nicely chromed" is most likely the first model or,
> to use 11M Johnson terminology, a Black Face Utica. The 650-A model is
> rather gray/silver in the panel and has tasteful pinstripes most
> prominent on the accessory VFO.

Hadn't noticed this part....the VFO I have has the pinstriped front
panel where the Transceiver has the Black Face...yes its much nicer
looking than the VFO!!....I put a picture of both up on my Web Page
today....Address of page is at bottom of signature block...it is a nice
looking radio!! de John K9UWA

John Goller, K9UWA & Jean Goller, N9PXF

Antique Radio Restorations

k9uwa@cris.com

<http://www.concentric.com/~k9uwa/>

Message-ID: <01BDE25A.F11EBF20@esieb.gmsiworld.com>

From: Ed Sieb <esieb@gmsiworld.com>

To: Old Tube Radios <boatanchors@theporch.com>

Subject: RE: GEC BRT402S What is that?

Date: Thu, 17 Sep 1998 16:48:02 -0400

MIME-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Content-Transfer-Encoding: quoted-printable

The GEC BRT40 series is a very nice receiver, covers I think 250 Khz to =
30 Mhz. It has excellent selectivity and reasonably good stability. It =
will receive AM with various bandwidth and is an excellent CW receiver =
as it has several filter positions.

It came in several versions, the 400/400K which was a table-top, with =
cabinet, and the 402(S) which was rack-mount.

The main deficiency is the bandspread. Since it uses a "slide-rule =
dial" the frequencies are silk-screened on the dial panel. But the =
calibration and bandspread tightens up as you go up in frequency. In =
other words, the higher up you go, the closer the markings are to each =
other, with the result that at ten metres it's difficult to discriminate =

even 5 khz. Notwithstanding this situation, the actual tuning is very = smooth and the tuning ratio/speed is actually quite slow. Of course what = this means is that to get from 3.5 Mhz to 21 MHz, for example, takes a = long time and much wear-and-tear on the wrists.

So what's my verdict after actually using one?=20

It's actually a beautiful receiver, and electrically is quite good. It's = deficiencies really render it suitable as a general use general coverage = comms receiver. Serious CW use demands that it typically be used on = only one band (you don't want to "band-hop" with this beast!) Great = for use on the lower bands (160, 80, 40) CW.

Should you get it? Depends on the price. The going price on these is = \$150 - \$300 depending on condition. The one I used was about a 9.25/10, = except for some slight blemishes on the top of the cabinet. It'll be a = 9.8 when we get those cleaned up. ;-)

73, de Ed, VA3ES

From: thompson@mindspring.com

Message-ID: <004301bde285\$96626340\$55db45cf@default>

To: Old Tube Radios <boatanchors@theporch.com>

Subject: Re: GEC BRT402S What is that?

Date: Thu, 17 Sep 1998 17:53:20 -0400

MIME-Version: 1.0

Content-Type: multipart/alternative;

boundary="-----_NextPart_000_0040_01BDE264.0E6EEEC0"

This is a multi-part message in MIME format.

-----=_NextPart_000_0040_01BDE264.0E6EEEC0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: quoted-printable

Sven,

The BRT 402S was a later version of the BRT 400D shown on page 344 = of the Osterman receiver book. Made by General Electric Company Ltd of = the UK. Usually these were designed for rack mounting with nice handles = on the front.

=20

Rare in the states as GEC never sold them here. =20

=20

Dave K4JRB

-----=_NextPart_000_0040_01BDE264.0E6EEEC0

Content-Type: text/html;

charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

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    of the BRT 400D shown on page 344 of the Osterman receiver =
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    for rack mounting with nice handles on the front.</FONT></DIV>
  <DIV><FONT color=3D#000000 face=3D"Courier New"></FONT>&nbsp;</DIV>
  <DIV><FONT color=3D#000000 face=3D"Courier New">Rare in the states =
as GEC never=20
    sold them here.&nbsp;</FONT></DIV>
  <DIV><FONT color=3D#000000 face=3D"Courier New"></FONT>&nbsp;</DIV>
  <DIV><FONT color=3D#000000 face=3D"Courier New">Dave=20
K4JRB</FONT></DIV></BLOCKQUOTE></BODY></HTML>
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-----=_NextPart_000_0040_01BDE264.0E6EEEC0--

Message-ID: <21B46CBD022AD1118F0500805F15A068A802F8@STPMSX05.stp.guidant.com>
From: "Freeberg, Scott (STP)" <scott.freeberg@guidant.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Ameco Company History
Date: Thu, 17 Sep 1998 16:58:44 -0500
MIME-Version: 1.0
Content-Type: text/plain

I am looking for information about the Ameco Company back in the AC-1 transmitter and R5 receiver days. Wonder who the designers were of these radios. While I understand that the AC-1 was a variation of the common 6L6 transmitters, still someone designed the AC-1 there. Thanks.

73, Scott WA9WFA in Saint Paul Minn
Ameco AC-1 and Conar 400 on 40 meters, Looking for Micamold XTR-1

From: N5CM@aol.com
Message-ID: <d0b742cf.36018c17@aol.com>
Date: Thu, 17 Sep 1998 18:24:23 EDT
To: Old Tube Radios <boatanchors@theporch.com>
Mime-Version: 1.0
Subject: TV-3 Tube Checker
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Hi gang,

Does anyone know if any later charts are available for the TV-3 tube checker?
I have the TV-3 and it is a very good instrument but I believe of pre-WW2
vintage. So many of the tubes I need to check are not listed.
Thanks for any help....

Ken....N5CM....

Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: Old Tube Radios <boatanchors@theporch.com>
From: Sandy W5TVW <ebjr@worldnet.att.net>
Subject: BA/GB net...
Message-Id: <19980918023522.JZKN19225@LOCALNAME>
Date: Fri, 18 Sep 1998 02:35:22 +0000

Hello people of the glowing bottles!

Just a reminder if anyone wants to join in on the CW roundtables
held almost nightly. Look on 7050 or 7052 if the SWBC QRM is on 7050.
There are "lurkers" from around 2100Z to around 2200Z, then from 2300Z to
around 0200Z there.

Tonight we had W5FRS, W7ZFB, K5DOA and W5TVW. Look for others
especially AC5AM who wasn't there tonight.

I shift to 80 meters around 0200-0230Z or so and listen until about
0300Z

and then from 0330 to 0500Z. The 80 meter QRG is the "burst" frequency
of 3579.5, but I'm usually down a khz. to dodge the TV birdies I get there
sometimes. 80 is getting very good now if we can just get some people to
occupy the band! It works well even with a little QRN, so don't let that
scare you away!

73 and ZUT,
Sandy W5TVW

From: zeitler@ibm.net
Message-ID: <00a301bde2a3\$b6489a80\$ec2b2581@km3g>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Cheap IF shift
Date: Thu, 17 Sep 1998 18:28:55 -0700
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Reflectees,
Many moons ago in a ham rag pub someone did an article on adding a "Cheap IF Shift" to a radio. I wonder if anyone may recall the article?? I am toying with the idea of adding an "IF Shit" to a single conversion superhet relatively easily.

Lane
KM3G
San Diego

From: Henry van Cleef <vancleef@netcom.com>
Message-Id: <199809180109.SAA00523@netcom3.netcom.com>
Subject: Re: tektronix scope ID
To: Old Tube Radios <boatanchors@theporch.com>
Date: Thu, 17 Sep 1998 19:09:16 -0600 (MDT)
Cc: boatanchors@theporch.com
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

As Ethan discourses

>
> I recently acquired an RM45A - is this simply the rack mount version of
> the 545A, or a different beast entirely?

>
Same scope. The RM scopes in this series are physically repackaged as though they were the regular scopes laid over on their right side, with the plug-in compartment rotated back to still be vertical.

--

=====
Hank van Cleef
=====

Date: Thu, 17 Sep 1998 20:19:22 -0500 (EST)
From: "Roberta J. Barmore" <rbarmore@indy.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Trying to find someone--sri, no BA content
Message-ID: <Pine.SUN.3.96.980917201609.5746A-100000@indy2>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi!

Very sorry to do this, but before I was sick and suffered a *huge* e-mail glitch, I had a note from a fellow working for a very famous comms & semiconductor company; he had some questions about the IF of one of their current projects.

Lost just about all my e-mail and had failed to do a print-out. OM, *please* contact me, I think the thing is in for a *huge* reverse TVI problem. Have some numbers for you.

73,
--Bobbi

KB9GKX "RJ" rbarmore@indy.net Roberta J. (Bobbi) Barmore
FISTS #3388 * G-QRP #10001 * ARRL * RSGB * WIA
Appreciator Of Vacuum-Tube Ham Gear and Vintage Keys

Message-ID: <3602770D.543@ix.netcom.com>
Date: Fri, 18 Sep 1998 10:06:53 -0500
From: David Stinson <arc5@ix.netcom.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Phototube vs Photocell
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I'm working on designing a test jig so I can create a "standard of brightness" for "eye" tubes. I want it to be easily replicable so others can use it. A Shaddy-0-Shack photocell and meter would work, but those cheap photocells are bad about being all over the map with their conduction/light curves. Different test sets would have different calibrations.

I could include some calibration circuitry, but then I run into the problem of attempting to create a "standard" light source to use in calibration. Is the light output of, say,

a 47 lamp with 6 volts on it consistant from
bulb-to-bulb?

Is there a photocell available with consistant
unit-to-unit light curve specifications that's also
ffordable and small? If not, what do you think of using
a phototube? I've not worked with phototubes
so don't know how they would be in this application.

TNX ES 73 DE Dave Stinson AB5S
arc5@ix.netcom.com

Message-Id: <3.0.1.32.19980918103843.01aa09c0@vuse.vanderbilt.edu>
Date: Fri, 18 Sep 1998 10:38:43 -0500
To: Old Tube Radios <boatanchors@theporch.com>
From: "A. B. Bonds" <ab@vuse.vanderbilt.edu>
Subject: SX-42 illls-A summary
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

The SX-42 with the errant bandswitch finally came to life last night,
functional on all bands. Now that the fuss is over, it's a pretty hot
radio, just needs a touchup RF alignment.

I thought that a summary of its problems might be useful. The symptom was
flaming and arcing in the bandswitch. In this design, the second RF stage
is always active, but the first stage is switched out for the lowest two
bands. This puts DC (at about 200 v) on the bandswitch. Unfortunately, it
shares a wafer with the grid signal. Due to extreme (!) leakage in the HV
bypass caps, the wafer heated up to the point of carbonizing. This started
a self-destruct sequence in which the carbon encouraged further arcing, and
so it goes.

The carbon in the faulty wafer was dug out with a dental tool. The areas
of the switch left with slim support were filled with epoxy. While this
improved the situation, I was still getting a grid voltage of about +3 v,
which caused an excess of both plate and screen current. Ultimately I had
to clean the surfaces of several wafers with a hydrocarbon (carb cleaner,
vicious stuff) and scrub with a Q-tip and brush. Lots of black goo came
off. This was apparently a mix of dust and contact debris that was
borderline conductive. It was "glued" to the wafer surfaces by layers of
old switch cleaner/lube. Ths done, I re-lubed the contacts with DeOxit.

Another problem arose with all of this manipulation. The plates of the RF
tubes are fed through the transformer coils for the highest frequencies.
These are very fine wires, "protected" by varnished cambric sleeves. I was
getting a short between a wafer contact and these wires every now and then

due to erosion of the cambric. I strongly urge that the plate leads for both RF tubes be removed and re-insulated with shrink tubing or similar.

A useful indicator of proper operation of your RF stages is the screen voltage on the RF tubes, which is easily measured. Take the side plate off. Near each tube socket will be a single-terminal phenolic strip. This terminal carries the screen voltage. Should be about 150 v for RF1, about 175 v for RF2 with no signal. The voltage will vary if the AGC kicks in. If these voltages are low (e.g., 100v), then you have positive grid bias. See above.

Finally--there are two 1.2 k decoupling resistors, one for the plate supply of each RF tube. One is located on a terminal strip near the RF box, one actually slips through a crack in the corner of the RF box. In any unrestored set, I predict that both of these will be burned. In one of my sets, these half-watt resistors had been replaced with one-watt resistors, and even these were burned. Burning indicates leaky bypasses, bad switch or a combinations of these. These cannot be ignored, things will get worse. Check 'em out.

Now that it's more or less done, those 12 w of audio sure sound nice....

73 A. B. Bonds

Message-Id: <199809181647.JAA21531@mail-gw.pacbell.net>
From: "Arden Allen" <gumbear@pacbell.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Phototube vs Photocell
Date: Fri, 18 Sep 1998 09:49:37 -0700
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi Dave;

> Is there a photocell available with consistant
> unit-to-unit light curve specifications that's also
> affordable and small?

My guess would be to use a silicon photocell. Its dark current would be extremely small and it's current output is proportional to photonic input. You don't have to worry about offset and temperature too much as long as you don't have temperature extremes while operating (keep it at room ambient temp). You use the photocell in a *transimpedance amplifier* (current to voltage converter) circuit using a low bias current op amp. Consult manufacturers data sheets and ap notes for circuits. There are other circuits you can use like bridges. I'm not conversent with other circuits

so can't give you much help there. Do some web searches and see what you can come up with. Good luck.

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

Message-ID: <36023CEE.518A@micron.net>
Date: Fri, 18 Sep 1998 10:58:54 +0000
From: Mary & Ray Jefferson <w7fni@micron.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: R.F. METER
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Greetings: It has been some time since my first listing for this so I am going to give you all an excuse to root thru your junk to see if you can come up with a meter of the following type:

Round....3" RF , zero to fifteen or zero to ten amp thermocouple movement. Used in BC 610 antenna tuner. I could use a smaller meter and make do with it but it would not match the original.

I located and bought a Johnson TRunit but when i use it I get such a signal loss it isn't practical to use. Manual suggests changing the length of the lead in. Signal loss is when receiving. Anyone else had this problem? Thanks for all your help in the past.

Ray Jefferson.
w7fni since 1934

Remember.....were all in this together.

Message-ID: <36029F49.5E5E@ix.netcom.com>
Date: Fri, 18 Sep 1998 12:58:34 -0500
From: David Stinson <arc5@ix.netcom.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: More Tubes FS
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Two more lots of unboxed tubes up for sale.
Too many with too little margin for me
to spend precious time testing them all.
I'd like to offer them to BA friends before
they go to the "block."

Over 100 mixed miniatures. Stopped counting at 100.
Test of a representative sample yielded 75% good.
No damper-diodes or TV series-filament trash.
Almost all are 6 volt. A few 12s and an occasional
50C5 or 0A2 thrown into the mix. Very wide selection.
Mostly radio applications. \$10 plus shipping from 78728.

Over 150+ glass octal tubes. No metals. Very nice mix.
I tested two random batches of 20. One tested
80% good, the other 75% good. No damper diodes
or series-filament TV trash, except for 3-4 6W4s
I didn't realize were dampers until I looked them up.
Mostly 30s-50s radio stuff. The random samples included
5Y3, 6X5, 6SD7, 6C5, 6SJ7, 6Q7, 6K7, 6K8, 6N7,
6SK7, 6K6, 6Y6, 6W6, 6SA7, 12SA7, 12SQ7, 6J7 etc.
A very few 35Z5. About 10% 12-volt filaments,
the rest 6 volt with the very occasional 35Z5.
No battery tubes as I'm partial to them ;-).
\$60 plus shipping from 78728.
That's about 33 CENTS a tube, guys.
Can't beat that anywhere.

As stated-- I have tested a representative
sample of each lot and am of the opinion that
they meet or exceed the standard as posted,
but I cannot test all these tubes nor can
I promise anything other than exactly what
I have said in the listing. Thanks.

Multiple requests decided by lottery, of course.
NOTE: If you have never "won" one of my lotteries,
please say so in your email. In the future, I'm going
to try to work-out a system to try and spread the
"luck" around. Still scratching my head on exactly
how to do it.

73 DE Dave Stinson AB5S
arc5@ix.netcom.com

Message-Id: <199809182245.RAA04584@sco.theporch.com>
Date: Fri, 18 Sep 1998 18:48:47 -0400
To: Old Tube Radios <boatanchors@theporch.com>
From: Glenn Finerman <glennfin@mjet.com>
Subject: Re: 3.521 interference
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello Brian...

>
>>A 10 KHz wide FM signal at about 3.521 Mc with 2-way telephone conversations,
>>DTMF signaling and ringing is interfering with my 80 meter CW BOATANCHOR
>>activity. I thought portable phones were all at 46/49 Mc or 900 Mc spread
>>spectrum.
>
>>Got any ideas from where it might be coming?
>
Sure do....Before 49/46mhz (base-handset) phones hit the scene, cordless phones operated on a 1.7mhz / 49mhz freq pair. The base unit operated on the 1.7mhz side. Lots of these phones are still in service. What you're probably hearing is the second harmonic of the base unit from a local source.

I suggest you fire-up your 160meter KW. That should sent the offending phone owner running to the store for a 900mhz version!! <grin>

73.....Glenn Finerman K2KL

glennfin@mjet.com

Message-ID: <3602E6F5.429AB7C9@his.com>
Date: Fri, 18 Sep 1998 19:04:21 -0400
From: "James R. Binkley" <w4aos@his.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: VU111 Tube, What is it?
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

At the (last) Gaithersburg Hamfest Sunday I picked up a number of good tubes from a fellow who was selling them 10 for a dollar. Got several useful tubes from this lot including an 815 and two 6L6's (glass). All test good on my Hickok tester.

I have always liked the 815's, someday I'll make a transmitter using one of them. The two plate caps coming out of the top at 45 degrees from the vertical looks very funky.

Two of the 10 cent tubes are ones I have never seen before. They are

tetrodes, (I think), four pin base, with the plate connected to a top cap. They look like they were intended to be some sort of power tube, judging from the hefty plate and the use of ceramic spacers inside the tube, rather than the usual mica spacers. I can't find any listing of them in my various books.

They are marked as follows:

Stamped on the envelope: VU111

Stamped on the base: Electronic Enterprises Inc. VU111
10E/146

Could be interesting tubes for a small transmitter project, definitely not mainstream tubes, anyone have any listing for them??

Thanks Bob w4aos

Message-ID: <000e01bde367\$d1415ba0\$c513fed0@vucqpqlj>
From: "David Hutchison" <davehutchison@worldnet.att.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Hammarlund HQ-160 wanted
Date: Fri, 18 Sep 1998 19:50:43 -0500

I am looking for a Hammarlund HQ-160 in decent shape. I also am looking for any Hammarlund with a working clock.

Thanks,

Dave K9HT

Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: Old Tube Radios <boatanchors@theporch.com>
From: Sandy W5TVW <ebjr@worldnet.att.net>
Subject: Re: The 3/1/99 Problem
Message-Id: <19980919013337.UAC3286@LOCALNAME>
Date: Sat, 19 Sep 1998 01:33:37 +0000

At 03:52 PM 9/18/98 -0700, you wrote:

>Not to mention Philo T. Farnsworth -- the true inventor of TV.

>

> -- Wayne G.

> ASA Project; PO Box 553; Chehalis, WA 98532

> ww@myhome.net

>

He invented "electronic TV", as opposed to the Nipkow Disc system. (Or at least the first "practical" electronic television using the cathode ray tube as a display device and the Iconoscope camera tube.) I forget WHO invented the "image dissector" camera tube, the forerunner of the orthicon and image orthicon.

Sarnoff had a Russian named Zwyrkin (excuse my bad spelling!) who perfected the Orthicon camera tube as I recall (off the top of my head, without looking!) RCA had most of the TV developers and patents captured. (Shades of Bill Gates capturing most of the programming geniuses!) Sarnoff tried to "corner the market"!!

Just about any receiver you can name had a little tag or sticker on it stating that "This device is licensed to use patents of the Radio Corporation of America and the Hazeltine Corporation....". RCA's control was very great in the radio market!

73,
Sandy W5TVW

Date: Fri, 18 Sep 1998 22:21:19 -0500 (EST)
From: "Roberta J. Barmore" <rbarmore@indy.net>
To: Old Tube Radios <boatanchors@theporch.com>
cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: The 3/1/99 Problem
Message-ID: <Pine.SUN.3.96.980918220905.8091A-100000@indy3>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi!

Phil Farnsworth gave us the Image Dissector; it gave us blue lipstick and night-vision 'scopes, as the device was *very* sensitive to infrared.

Farnsworth did the first demonstration of "serial" electronic TV, which is to say line-by-line scanned; there's evidence that Bell Labs may have had a working (but impractical) "parallel" system running a year or two earlier, which assigned each blob of light (picture element or "pixel") its very own wire.

His work also gave us notions like transmitting video "upside down" (white is the lowest level of modulation) over the air, and "blacker than black" sync (it's the tip of sync that's the highest level sent, so as to ensure the picture stays framed even when it's lousy). And between him and Philco, the idea of only transmitting one sideband of the TV signal was found--by accident! "Vestigial sideband" uses less bandwidth and results in a sharper picture--though we do have to sneak in a little of

the other sideband to make the sync & LF components happiest.

In short, it was Phil Farnsworth, far more than Zyworkin and Sarnoff, who made your TV set work the way it does; but RCA saved us from blue lipstick (the I-O doesn't see IR nearly as well) and made the medium a commercial success. Phil made it work--General Sarnoff made it work for a living.

73,
--Bobbi

KB9GKX "RJ" rbarmore@indy.net Roberta J. (Bobbi) Barmore
FISTS #3388 * G-QRP #10001 * ARRL * RSGB * WIA
Appreciator Of Vacuum-Tube Ham Gear and Vintage Keys

End of BOATANCHORS Digest 2220
